

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A stent comprising

a first loop containing section, the first loop containing section arranged generally in the circumferential direction, the loops in said first loop containing section occurring at a first frequency;

a second loop containing section, the second loop containing section arranged generally in the circumferential direction, the loops in said second loop containing section also occurring at said first frequency; and

a third loop containing section, the loops in said third loop containing section occurring at a second frequency that is higher than said first frequency, the third loop containing section disposed in the generally circumferential space between said first and second ~~loop~~ loop containing sections and alternately joined to said first and second loop containing sections;

said first and second loop containing sections are exclusively joined together through the third loop containing section and the third loop containing section compensates for foreshortening of the stent during expansion;

said first and second loop containing sections have two cycles for every three cycles of said third loop containing section;

said first and second loop containing sections are 180° out of phase with each other; and

said first, second, and third loop containing sections ~~are~~ each form single continuous ~~sinusoidals~~ sinusoidal bands.

2-50. (canceled)

51. (currently amended) A stent comprising:

a first loop containing section, the first loop containing section arranged generally in the circumferential direction, the loops in said first loop containing section occurring at a first frequency;

a second loop containing section, the second loop containing section arranged generally in the circumferential direction, the loops in said second loop containing section also occurring at said first frequency; and

a third loop containing section, the loops in said third loop containing section occurring at a second frequency that is higher than said first frequency, the third loop containing section disposed in the generally circumferential space between each said first and second loop containing sections and alternately joined to said first and second loop containing sections such that said first and second loop containing sections are joined together through the third loop containing section without other connection directly between the first and second loop containing sections wherein the first and second loop containing sections have two cycles for every ~~third~~ three cycles of said third loop containing section;

wherein the first and second loop containing sections are 180° out of phase with each other and the first, second, and third loop containing sections ~~are~~ each form single continuous ~~sinusoidals~~ sinusoidal bands.

52. (currently amended) A stent comprising:

a plurality of first circumferential bands containing a pattern of loops at a first frequency;

a plurality of ~~first~~ second circumferential bands containing a pattern of loops at a second frequency higher than said first frequency, each second band alternating with each ~~said~~ first circumferential bands and periodically coupled thereto to form cells such that said first circumferential bands are joined together through second circumferential bands without other connection directly between said first circumferential bands,

wherein the first circumferential bands containing a pattern of loops are comprised of even first circumferential bands containing a pattern of loops~~[[;]],~~ and odd first circumferential bands containing a pattern of loops which are ~~180-degrees out~~ of phase with the loops of the even first circumferential bands, an odd first circumferential bands occurring between every two even first circumferential bands wherein each cell includes two cycles of one of said plurality of first circumferential bands and three cycles of one of said plurality of second circumferential bands and the first, and second circumferential bands are each form single continuous ~~sinusoids~~ sinusoidal bands.

53. (currently amended) A stent comprising:

a first loop containing section, the first loop containing section arranged generally in the circumferential direction, the loops in said first loop containing section occurring at a first frequency;

a second loop containing section, the second loop containing section arranged generally in the circumferential direction, the loops in said second loop containing section also occurring at said first frequency; and

a third loop containing section, the loops in said third loop containing section occurring at a second frequency that is higher than said first frequency, the third loop containing section disposed in the generally circumferential space between each said first and second loop containing sections and alternately joined to said first and second loop containing sections such that said first and second loop containing sections are joined together through the third loop containing section without other connection directly between the first and second loop containing sections wherein the first and second loop containing sections have two cycles for every three cycles of said third loop containing section;

wherein the first, second, and third loop containing sections are each form single continuous ~~sinusoidal~~ sinusoidal bands.

54. (currently amended) A stent comprising:

a plurality of first circumferential bands containing a pattern of loops at a first frequency;

a plurality of second circumferential bands containing a pattern of loops at a second frequency higher than said first frequency, alternating with each said first circumferential bands and periodically coupled thereto to form cells such that each said first circumferential bands ~~are~~ is joined together through said second circumferential bands without other connection directly between said first circumferential bands,

wherein the first circumferential bands containing a pattern of loops are comprised of even first circumferential bands containing a pattern of loops; and odd first circumferential bands containing a pattern of loops, an odd first circumferential band occurring between every two even first circumferential bands wherein each cell includes two cycles of one of said plurality of first circumferential bands and three cycles of one of said plurality of second circumferential bands and the first, and second circumferential bands are each form single continuous ~~sinusoidals~~ sinusoidal bands.

55. (currently amended) A stent comprising:

a first loop containing section, the first loop containing section arranged generally in the circumferential direction, the loops in said first loop containing section occurring at a first frequency;

a second loop containing section, the second loop containing section arranged generally in the circumferential direction, the loops in said second loop containing section also occurring at said first frequency; and

a third loop containing section, the loops in said third loop containing section occurring at a second frequency that is higher than said first frequency, the third loop containing section disposed in the generally circumferential space between said first and second loop containing sections such that each said first and second loop containing sections are joined together through the third loop containing section without other connection directly between the first and second loop containing sections wherein the first and second loop containing sections have two cycles for every three cycles of said first loop containing section:

wherein the first, second and third loop containing sections have

struts and the struts of the first and second loop containing sections are wider than the struts of the third loop containing section and the first, second, and third loop containing sections are each form single continuous ~~sinusoidal~~ sinusoidal bands.

56. (currently amended) A stent comprising:

a plurality of first circumferential bands containing a pattern of loops at a first frequency;

a plurality of second circumferential bands containing a pattern of loops at a second frequency higher than said first frequency, alternating with each said first circumferential bands and periodically joined together through said second circumferential bands without other connection directly between said first circumferential bands,

wherein the first circumferential bands containing a pattern of loops are comprised of even first circumferential bands containing a pattern of loops; and odd first circumferential bands containing a pattern of loops which are ~~180-degrees~~ out of phase with the loops of the even first circumferential bands, an odd first circumferential band occurring between every two even first circumferential bands wherein each cell includes two cycles of one of said first circumferential bands and three cycles of one of said plurality of second circumferential bands;

wherein the first, and second circumferential bands have struts and the struts of the first circumferential bands are wider than the struts of the second circumferential bands, and the first, and second circumferential bands are each form single continuous ~~sinusoidal~~ sinusoidal bands.